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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 1 of 2

Complete If Known	
Application Number	10/685,478
Filing Date	October 16, 2003
First Named Inventor	Daben Liu
Art Unit	~~2644~~ 2626
Examiner Name	~~Not Yet Assigned~~ AZAD
Attorney Docket Number	BBNT-P01-191

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/AA/	AC2	US-6,024,571	02-15-2000	Renegar	
	AD2	US-6,714,911 B2	06-30-2004	Waryas et al	
	AE2	US-6,999,918 B2	02-14-2006	Ma et al	
	AF2	US-5,418,716	05-23-1995	Suematsu	
	AG2	US-6,067,514	05-23-2000	Chen	
	AH2	US-6,718,303 B2	04-06-2004	Tang et al	
	AI2	US-6,778,958	08-17-2004	Nishimura et al	
	AJ2	US-7,131,117 B2	10-31-2006	Mills et al	
	AK2	US-5,960,447	09-28-1999	Holt et al	
	AL2	US-6,067,517	05-23-2000	Bahl et al	
	AM2	US-6,161,087	12-12-2000	Wightman et al	
	AN2	US-6,332,147 B1	12-18-2001	Moran et al	
	AO2	US-6,360,237 B1	03-19-2002	Schulz et al	
	AP2	US-6,792,409 B2	09-14-2004	Wutte	
	AQ2	US-6,708,148 B2	03-16-2004	Gschwendtner et al	
	AR2	US-5,559,875	09-24-1996	Bieselin et al	
	AS2	US-2002/0010575 A1	01-24-2002	Haase et al	
	AT2	US-6,185,531 B1	02-06-2001	Schwartz	
	AU2	US-6,434,520 B1	08-13-2002	Kanevsky et al	
/AA/	AV2	US-6,052,657	04-18-2000	Yamron et al	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
/AA/	BK	EP-1 422 692 A2	05-26-2004	Divay et al		
/AA/	BL	JP-361285570A	12-16-1986	Oshima et al		

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
/AA/	CA	Cutting, et al "A Practical Part-of-Speech Tagger," Proceedings of the 3rd Conference on Applied Natural Language Processing, ACL 1992, pgs 133-140	
/AA/	CB	Beeferman et al, "Cyberpunc: A Lightweight Punctuation Annotation System for Speech," Proceedings of the 1999 IEEE Conference on Acoustics, Speech and Signal Processing, ICASSP'98 12-15 May 1999, 2:689-692	
/AA/	CC	Shriberg et al, "Can Prosody Aid the Automatic Processing of Mult-Party Meetings? Evidence	

Examiner Signature	/Abul Azad/	Date Considered	04/30/2007

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Sheet	2	of	2

	Complete if Known
Application Number	10/685,478
Filing Date	October 16, 2003
First Named Inventor	Daben Liu
Art Unit	2641
Examiner Name	Not Yet Assigned
Attorney Docket Number	BBNT-P01-191

/AA/		Tutorial and Research Workshop on Prosody in Speech Recognition and Understanding, October 2001, pgs 139-140	
/AA/	CD	Guavain et al, "Transcribing Broadcast News Shows," IEEE International Conference on Acoustics, Speech and Signal Processing, ICASSP'97, 2:21-24, April 1997, pg 715-718	
/AA/	CE	Waibel et al, "Meeting Browser: Tracking and Summarizing Meetings," Proceedings of DARPA Broadcast News Workshop, 1998	
/AA/	CF	Ferret et al, "A Thematic Segmentation Procedure for Extracting Semantic Domains from Texts," ECAI '98, Brighton, UK, 1998	

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U.S. PATENT DOCUMENTS

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/AA/	AA*	US-20010026377-A1	10-04-2001	Ikegami	
	AB*	US-20010051984-A1	05-20-2003	FUKASAWA	
	AC*	US-20020010916-A1	12-03-2002	Thong et al.	
	AD*	US-20020059204-A1	05-16-2002	Harris	
	AE*	US-20020184373-A1	12-05-2002	Maes	
	AF*	US-20030051214	03-13-2003	Graham et al	
	AG*	US-20030093580-A1	05-15-2003	McGee et al.	
	AH*	US-20030167163-A1	09-04-2003	Glover et al.	
	AI*	US-20040073444-A1	04-15-2004	Peh et al.	
	AJ*	US-20050060162-A1	03-17-2005	Mohit et al.	
	AK*	US-4,879,648	11-07-1989	Cochran et al.	
	AL*	US-4,908,866	03-13-1990	Goldwasser et al	
	AM*	US-5,317,732	05-31-1994	Gerlach, Jr. et al.	
	AN*	US-5,404,295	04-04-1995	Katz et al	
	AO*	US-5,544,257	08-06-1996	Bellegarda et al	
	AP*	US-5,572,728	11-05-1996	Tada et al	
	AQ*	US-5,684,924	11-04-1997	Stanley et al	
	AR*	US-5,715,367	02-03-1998	Gillick et al	
	AS*	US-5,752,021	05-12-1998	Nakatsuyama et al.	
	AT*	US-5,757,960	05-26-1998	Murdock et al	
	AU*	US-5,768,607	06-16-1998	Drews et al	
	AV*	US-5,777,614	07-07-1998	Ando et al	
	AW*	US-5,787,198	07-28-1998	Agazzi et al	
	AX*	US-5,835,667	11-10-1998	Wactlar et al	
	AY*	US-5,862,259	01-19-1999	Bokser et al	
	AZ*	US-5,875,108	02-23-1999	Hoffberg et al	
	AA1*	US-5,963,940	10-05-1999	Liddy et al.	
	AB1*	US-5,970,473	10-19-1999	Gerszberg et al	
	AC1*	US-6,006,221	12-21-1999	Liddy et al.	
	AD1*	US-6,029,124	02-22-2000	Gillick et al	
	AE1*	US-6,029,195	02-22-2000	Herz, Frederick S.M.	
	AF1*	US-6,052,657	04-18-2000	Yamron et al	
	AG1*	US-6,064,963	05-16-2000	Gainsboro, Jay L.	
	AH1*	US-6,088,669	07-11-2000	Mayes	
	AI1*	US-6,112,172	08-29-2000	True et al	
	AJ1*	US-6,151,598	11-21-2000	Shaw et al.	
	AK1*	US-6,169,789	01-02-2001	Rao et al	
	AL1*	US-6,219,640	04-17-2001	Basu et al	
	AM1*	US-6,332,139	12-18-2001	Kaneko et al	
	AN1*	US-6,373,985	04-16-2002	Hu et al	
	AO1*	US-6,381,640-B1	04-30-2002	Powers et al	
	AP1*	US-6,437,818-B1	08-20-2002	Lauwers et al	
	AQ1*	US-6,480,826	11-12-2002	Petrushin, Valery A.	
	AR1*	US-6,602,300-A1	08-05-2003	Ushioda et al.	
/AA/	AS1*	US-6,604,110	08-05-2003	Savage et al.	

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Sheet 2 of 2

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Filing Date	October 16, 2003
First Named Inventor	Daben Liu
Art Unit	2641
Examiner Name	Not Yet Assigned
Attorney Docket Number	BBNT-P01-191

/AA/	AT1*	US-6,647,383	11-11-2003	August et al		
	AU1*	US-6,654,735	11-25-2003	Eichstaedt et al		
	AV1*	US-6,847,961	01-25-2005	Silverbrook et al		
	AW1*	US-6,922,691-A1	07-26-2005	Flank		
	AX1*	US-6,961,954	11-01-2005	Maybury et al.		
	AY1*	US-6,973,428-A1	12-06-2005	Boguraev et al.		
/AA/	AZ1*	US-6,978,277-A1	12-20-2005	Reed et al.		

FOREIGN PATENT DOCUMENTS

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/AA/	BA	EP-0664636	07-26-1995	IBM		
	BB	EP-0715298	06-09-2000	IBM		
	BC	EP-0935378	08-11-1999	IBM		
	BD	EP-1079313	02-28-2001	Digitake Software Systems Limited		
	BE	EP-1103952	05-30-2001	Matsushita Electric Industrial		
	BF	EP-1176493	01-30-2002	Pathuel, Jan		
	BG	WO-99/17235	04-08-1999	AT&T		
	BH	WO-00/59223	10-05-2000	Tivo, Inc.		
	BI	WO-02/29612	04-11-2002	Intel Corporation		
/AA/	BJ	WO-02/29614	04-11-2002	Intel Corporation		

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INFORMATION DISCLOSURE CITATION
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ATTORNEY'S DKT NO.	APPLICATION NO.
02-4021	10/685,478
APPLICANT(S) Daben Liu	
FILING DATE October 16, 2003	GROUP ~~Unassigned~~ 2626

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes	Translation No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/AA/		Amit Srivastava et al.: "Sentence Boundary Detection in Arabic Speech," 8th European Conference on Speech Communication and Technology, September 1-4, 2003 in Geneva, Switzerland; 4 pages.
		Sreenivasa Sista et al.: "Unsupervised Topic Discovery Applied To Segmentation Of News Transcriptions," 8th European Conference on Speech Communication and Technology, September 1-4, 2003 in Geneva. Switzerland; 4 pages.
		Daben Liu et al.: "Online Speaker Clustering," ICASSP 2003, Vol. I, pages 572-575, 2003 Hong Kong.
		J. Billa et al.: "Audio Indexing Of Arabic Broadcast News," ICASSP 2002; Orlando, FL; May 13-17, 2002; 4 pages.
		Scott Shepard et al.: "Oasis Translator's Aide," Human Language Technology Conference; San Diego, California; 2002; 2 pages.
		Scott Shepard et al.: "Newsroom OnTAP - Real-time alerting from streaming audio," December-January 2001 HLT Paper; 2 pages.
		Heidi Christensen et al.: "Punctuation Annotation using Statistical Prosody Models," The Proceedings of Eurospeech, Denmark, 2001; 6 pages.
		Ji-Hwan Kim et al.: "The Use Of Prosody In A Combined System For Punctuation Generation And Speech Recognition," The Proceedings of Eurospeech, Denmark, 2001; 4 pages.
		Jing Huang et al.: "Maximum Entropy Model For Punctuation Annotation From Speech," The Proceedings of Eurospeech, Denmark, 2001; pages 917-920.
		Yoshihiko Gotoh et al.: "Sentence Boundary Detection in Broadcast Speech Transcripts," Proceedings of the International Speech Communication Association Workshop: Automatic Speech Recognition: Challenges for the New Millennium, Paris, September 2000; 8 pages.
		John Makhoul et al.: "Speech and Language Technologies for Audio Indexing and Retrieval," Proceedings of the IEEE, Vol. 88, No. 8, August 2000; pages 1338-1353.
/AA/		Francis Kubala et al.: "Integrated Technologies For Indexing Spoken Language," Communications of the ACM, Vol. 43, No. 2, February 2000; pages 48-56.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/AA/	Sean Colbath et al.: "Spoken Documents: Creating Searchable Archives from Continuous Audio," Proceedings of the 33rd Hawaii International Conference on System Sciences-2000; pages 1-9.
	Francis Kubala et al.: "Situation Awareness Contexts for Smart Environments," Inter-Agency Workshop on Research Issues for Smart Environments; Atlanta, GA; 2000; 3 pages.
	Daben Liu et al.: "Fast Speaker Change Detection For Broadcast News Transcription And Indexing," The Proceedings of Eurospeech 1999; Budapest, Hungary; 4 pages.
	Daniel M. Bikel et al.: "An Algorithm that Learns What's in a Name," Machine Learning, 1999; pages 1-20.
	Richard Schwartz et al.: "Accurate Near-Real-Time Recognition of Broadcast News using Multiple-Pass Search Techniques," 1999 Workshop on Automatic Speech Recognition and Understanding, December 12-15, 1999; Keystone, Colorado; 6 pages.
	Francis Kubala et al.: "Smart Information Spaces: Managing Personal and Collaborative Histories," Proceedings of the 1998 DARPA/NIST Smart Spaces Workshop, July 30-31, 1998; 6 pages.
	Daben Liu et al.: "Improvements in Spontaneous Speech Recognition," Proceedings of the DARPA Broadcast News Transcription and Understanding Workshop; February 8-11, 1998 in Lansdowne, Virginia; 5 pages.
	Francis Kubala et al.: "The 1997 BBN Byblos System Applied To Broadcast News Transcription," Cambridge, Massachusetts; 1997; 6 pages.
	Hubert Jin et al.: "Automatic Speaker Clustering," ICFEM, Chantilly, Virginia; February 1997; 4 pages.
	Sean Colbath et al.: "OnTAP: Mixed-media Multi-lingual Language Processing," Human Language Technology Conference, San Diego, CA; 2002; 2 pages.
	Andreas Stolcke et al.: "Automatic Linguistic Segmentation Of Conversational Speech," Proceedings of the International Conference on Spoken Language Processing, Vol. 2, Philadelphia 1996; pages 1005-1008.
	Scott S. Chen et al.: "Speaker, Environment and Channel Change Detection and Clustering via the Bayesian Information Criterion," in DARPA Speech Recognition Workshop, 1998, 6 pages.
/AA/	Marti A. Hearst: "Multi-Paragraph Segmentation of Expository Text," in Proceedings of the 2nd Annual Meeting of the Association for Computational Linguistics, New Mexico State University, Las Cruces, NM, 1994, pages 1-8.

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